

METHOD OF DETERMINING TIME DELAY
FOR ROUND-TRIP TRANSMISSION OF DATA AND
ELECTRONIC APPARATUS THEREFOR

Abstract of the Disclosure

A method of determining a time delay for a round-trip transmission of data includes receiving a first data packet having a first IP source address, a first IP destination address, a first TCP source port, a first TCP destination port, and a first time stamp indicating a first time when the first data packet was transmitted. The method continues by inserting the first IP destination address as a second IP source address in a second data packet and by inserting the first IP source address as a second IP destination address in the second data packet. Next, the method proceeds by inserting the first TCP destination port as a second TCP source port in the second data packet and by inserting the first TCP source port as a second TCP destination port in the second data packet. Then, the method continues by inserting the first time stamp as a second time stamp in the second data packet and by transmitting the second data packet.

An electronic apparatus for determining a time delay for a round-trip transmission of data includes a data reception portion, an input memory portion coupled to the data reception portion, a data validity portion coupled to the data reception portion, and a first memory and data transfer management portion coupled to the input memory portion and the data validity portion. The electronic apparatus further includes a second memory and data transfer management portion coupled to the first memory and data transfer management portion, an output memory portion coupled to the input memory portion and the second memory and data transfer management portion, and a data pattern management portion coupled to the second memory and data transfer

management portion. The electronic apparatus additionally includes a header format portion coupled to the output memory portion and a data transmission portion coupled to the header format portion and the data pattern management portion.